Map of parcels at 31 kft on 04072515 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072515 2.5 2.0 Days Since Convection 1.5 1.0 0.5 0.0 NASA/ARC **PSL** de Used is 0407251445 .1330 Trajectories

Map of parcels at 31 kft on 04072515 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072515 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC **PSL** ast Image Used is 0407251445 1330 Trajectories

Map of parcels at 31 kft on 04072515 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072515 7.5 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC **PSL** Last Image Used is 0407251445 1330 Trajectories

Map of parcels at 31 kft on 04072515 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04072515 9.5 Days Since Convection 9.0 8.5 8.0 7.5 NASA/ARC PSL Last Image Used is 0407251445 1330 Trajectories